RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/562,486
Source: IFW
Date Processed by STIC: 2/16/07

ENTERED

IFWO

RAW SEQUENCE LISTING DATE: 02/16/2007
PATENT APPLICATION: **US/10/562,486** TIME: 10:08:22

Input Set : **A:\283629US.txt**
Output Set: **N:\CRF4\02162007\J562486.raw**

```
     3 <110> APPLICANT: Haruo, Sugiyama
     5 <120> TITLE OF INVENTION: Method of selecting patients suitable for WT1 vaccine
     7 <130> FILE REFERENCE: 664590
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/562,486
C--> 10 <141> CURRENT FILING DATE: 2005-12-27
    12 <150> PRIOR APPLICATION NUMBER: JP 2003-184436
    13 <151> PRIOR FILING DATE: 2003-06-27
    15 <150> PRIOR APPLICATION NUMBER: JP 2004-070497
    16 <151> PRIOR FILING DATE: 2004-03-12
    18 <160> NUMBER OF SEQ ID NOS: 22
    20 <170> SOFTWARE: PatentIn Ver. 2.1
    23 <210> SEQ ID NO: 1
    24 <211> LENGTH: 449
    25 <212> TYPE: PRT
    26 <213> ORGANISM: Homo sapiens
    28 <400> SEQUENCE: 1
    29 Met Gly Ser Asp Val Arg Asp Leu Asn Ala Leu Leu Pro Ala Val Pro
    30   1               5                  10                  15
    32 Ser Leu Gly Gly Gly Gly Gly Cys Ala Leu Pro Val Ser Gly Ala Ala
    33              20                  25                  30
    35 Gln Trp Ala Pro Val Leu Asp Phe Ala Pro Pro Gly Ala Ser Ala Tyr
    36          35                  40                  45
    38 Gly Ser Leu Gly Gly Pro Ala Pro Pro Pro Ala Pro Pro Pro Pro Pro
    39      50                  55                  60
    41 Pro Pro Pro Pro His Ser Phe Ile Lys Gln Glu Pro Ser Trp Gly Gly
    42  65                  70                  75                  80
    44 Ala Glu Pro His Glu Glu Gln Cys Leu Ser Ala Phe Thr Val His Phe
    45                  85                  90                  95
    47 Ser Gly Gln Phe Thr Gly Thr Ala Gly Ala Cys Arg Tyr Gly Pro Phe
    48             100                 105                 110
    50 Gly Pro Pro Pro Pro Ser Gln Ala Ser Ser Gly Gln Ala Arg Met Phe
    51         115                 120                 125
    53 Pro Asn Ala Pro Tyr Leu Pro Ser Cys Leu Glu Ser Gln Pro Ala Ile
    54     130                 135                 140
    56 Arg Asn Gln Gly Tyr Ser Thr Val Thr Phe Asp Gly Thr Pro Ser Tyr
    57 145                 150                 155                 160
    59 Gly His Thr Pro Ser His His Ala Ala Gln Phe Pro Asn His Ser Phe
    60                 165                 170                 175
    62 Lys His Glu Asp Pro Met Gly Gln Gln Gly Ser Leu Gly Glu Gln Gln
    63             180                 185                 190
    65 Tyr Ser Val Pro Pro Pro Val Tyr Gly Cys His Thr Pro Thr Asp Ser
    66         195                 200                 205
    68 Cys Thr Gly Ser Gln Ala Leu Leu Leu Arg Thr Pro Tyr Ser Ser Asp
```

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```
     210                 215                 220
Asn Leu Tyr Gln Met Thr Ser Gln Leu Glu Cys Met Thr Trp Asn Gln
225                 230                 235                 240
Met Asn Leu Gly Ala Thr Leu Lys Gly Val Ala Ala Gly Ser Ser Ser
                245                 250                 255
Ser Val Lys Trp Thr Glu Gly Gln Ser Asn His Ser Thr Gly Tyr Glu
            260                 265                 270
Ser Asp Asn His Thr Thr Pro Ile Leu Cys Gly Ala Gln Tyr Arg Ile
        275                 280                 285
His Thr His Gly Val Phe Arg Gly Ile Gln Asp Val Arg Arg Val Pro
    290                 295                 300
Gly Val Ala Pro Thr Leu Val Arg Ser Ala Ser Glu Thr Ser Glu Lys
305                 310                 315                 320
Arg Pro Phe Met Cys Ala Tyr Pro Gly Cys Asn Lys Arg Tyr Phe Lys
                325                 330                 335
Leu Ser His Leu Gln Met His Ser Arg Lys His Thr Gly Glu Lys Pro
            340                 345                 350
Tyr Gln Cys Asp Phe Lys Asp Cys Glu Arg Arg Phe Ser Arg Ser Asp
        355                 360                 365
Gln Leu Lys Arg His Gln Arg Arg His Thr Gly Val Lys Pro Phe Gln
    370                 375                 380
Cys Lys Thr Cys Gln Arg Lys Phe Ser Arg Ser Asp His Leu Lys Thr
385                 390                 395                 400
His Thr Arg Thr His Thr Gly Lys Thr Ser Glu Lys Pro Phe Ser Cys
                405                 410                 415
Arg Trp Pro Ser Cys Gln Lys Lys Phe Ala Arg Ser Asp Glu Leu Val
            420                 425                 430
Arg His His Asn Met His Gln Arg Asn Met Thr Lys Leu Gln Leu Ala
        435                 440                 445
Leu
```

<210> SEQ ID NO: 2
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
W--> **<220> FEATURE:**
<223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic Peptide
<400> SEQUENCE: 2
Cys Met Thr Trp Asn Gln Met Asn Leu
1 5

<210> SEQ ID NO: 3
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
W--> **<220> FEATURE:**
<223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic Peptide
<400> SEQUENCE: 3
Cys Tyr Thr Trp Asn Gln Met Asn Leu

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Input Set : **A:\283629US.txt**
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```
     1  5
<210> SEQ ID NO: 4
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
W--> <220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
      Peptide
<400> SEQUENCE: 4
Arg Met Phe Pro Asn Ala Pro Tyr Leu
  1  5
<210> SEQ ID NO: 5
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
W--> <220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
      Peptide
<400> SEQUENCE: 5
Arg Tyr Pro Ser Cys Gln Lys Lys Phe
  1  5
<210> SEQ ID NO: 6
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
W--> <220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
      Peptide
<400> SEQUENCE: 6
Ser Tyr Thr Trp Asn Gln Met Asn Leu
  1  5
<210> SEQ ID NO: 7
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
W--> <220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
      Peptide
<400> SEQUENCE: 7
Ala Tyr Thr Trp Asn Gln Met Asn Leu
  1  5
<210> SEQ ID NO: 8
<211> LENGTH: 9
<212> TYPE: PRT
<213> ORGANISM: Artificial Sequence
W--> <220> FEATURE:
<223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
      Peptide
<223> OTHER INFORMATION: Xaa at 1 position stands for Abu.
```

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Input Set : **A:\283629US.txt**
Output Set: **N:\CRF4\02162007\J562486.raw**

W--> 203 <400> 8
W--> 204 Xaa Tyr Thr Trp Asn Gln Met Asn Leu
205 1 5
208 <210> SEQ ID NO: 9
209 <211> LENGTH: 9
210 <212> TYPE: PRT
211 <213> ORGANISM: Artificial Sequence
W--> 212 <220> FEATURE:
213 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
214 Peptide
216 <400> SEQUENCE: 9
217 Arg Tyr Thr Trp Asn Gln Met Asn Leu
218 1 5
221 <210> SEQ ID NO: 10
222 <211> LENGTH: 9
223 <212> TYPE: PRT
224 <213> ORGANISM: Artificial Sequence
W--> 225 <220> FEATURE:
226 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
227 Peptide
229 <400> SEQUENCE: 10
230 Lys Tyr Thr Trp Asn Gln Met Asn Leu
231 1 5
234 <210> SEQ ID NO: 11
235 <211> LENGTH: 9
236 <212> TYPE: PRT
237 <213> ORGANISM: Artificial Sequence
W--> 238 <220> FEATURE:
239 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
240 Peptide
242 <400> SEQUENCE: 11
243 Arg Tyr Phe Pro Asn Ala Pro Tyr Leu
244 1 5
247 <210> SEQ ID NO: 12
248 <211> LENGTH: 9
249 <212> TYPE: PRT
250 <213> ORGANISM: Artificial Sequence
W--> 251 <220> FEATURE:
252 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
253 Peptide
255 <400> SEQUENCE: 12
256 Arg Tyr Pro Gly Val Ala Pro Thr Leu
257 1 5
260 <210> SEQ ID NO: 13
261 <211> LENGTH: 9
262 <212> TYPE: PRT
263 <213> ORGANISM: Artificial Sequence
W--> 264 <220> FEATURE:
265 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic

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Input Set : A:\283629US.txt
Output Set: N:\CRF4\02162007\J562486.raw

```
     266       Peptide
     268 <400> SEQUENCE: 13
     269 Ala Tyr Leu Pro Ala Val Pro Ser Leu
     270   1               5
     273 <210> SEQ ID NO: 14
     274 <211> LENGTH: 9
     275 <212> TYPE: PRT
     276 <213> ORGANISM: Artificial Sequence
W--> 277 <220> FEATURE:
     278 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
     279       Peptide
     281 <400> SEQUENCE: 14
     282 Asn Tyr Met Asn Leu Gly Ala Thr Leu
     283   1               5
     286 <210> SEQ ID NO: 15
     287 <211> LENGTH: 9
     288 <212> TYPE: PRT
     289 <213> ORGANISM: Artificial Sequence
W--> 290 <220> FEATURE:
     291 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
     292       Peptide
     294 <400> SEQUENCE: 15
     295 Arg Val Pro Gly Val Ala Pro Thr Leu
     296   1               5
     299 <210> SEQ ID NO: 16
     300 <211> LENGTH: 9
     301 <212> TYPE: PRT
     302 <213> ORGANISM: Artificial Sequence
W--> 303 <220> FEATURE:
     304 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
     305       Peptide
     307 <400> SEQUENCE: 16
     308 Arg Tyr Pro Ser Ser Gln Lys Lys Phe
     309   1               5
     312 <210> SEQ ID NO: 17
     313 <211> LENGTH: 9
     314 <212> TYPE: PRT
     315 <213> ORGANISM: Artificial Sequence
W--> 316 <220> FEATURE:
     317 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic
     318       Peptide
     320 <400> SEQUENCE: 17
     321 Arg Tyr Pro Ser Ala Gln Lys Lys Phe
     322   1               5
     325 <210> SEQ ID NO: 18
     326 <211> LENGTH: 9
     327 <212> TYPE: PRT
     328 <213> ORGANISM: Artificial Sequence
W--> 329 <220> FEATURE:
```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/16/2007
PATENT APPLICATION: US/10/562,486 TIME: 10:08:23

Input Set : A:\283629US.txt
Output Set: N:\CRF4\02162007\J562486.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:8; Xaa Pos. 1
Seq#:18; Xaa Pos. 5

VARIABLE LOCATION SUMMARY DATE: 02/16/2007
PATENT APPLICATION: **US/10/562,486** TIME: 10:08:23

Input Set : **A:\283629US.txt**
Output Set: **N:\CRF4\02162007\J562486.raw**

OK

Use of n's or Xaa's(NEW RULES):
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:8; Xaa Pos. 1
Seq#:18; Xaa Pos. 5

VERIFICATION SUMMARY DATE: 02/16/2007
PATENT APPLICATION: **US/10/562,486** TIME: 10:08:23

Input Set : **A:\283629US.txt**
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L:9 M:270 C: Current Application Number differs, Replaced Current Application Number
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:120 M:283 W: Missing Blank Line separator, <220> field identifier
L:133 M:283 W: Missing Blank Line separator, <220> field identifier
L:146 M:283 W: Missing Blank Line separator, <220> field identifier
L:159 M:283 W: Missing Blank Line separator, <220> field identifier
L:172 M:283 W: Missing Blank Line separator, <220> field identifier
L:185 M:283 W: Missing Blank Line separator, <220> field identifier
L:198 M:283 W: Missing Blank Line separator, <220> field identifier
L:203 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:204 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:8
L:204 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:8
L:204 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
L:212 M:283 W: Missing Blank Line separator, <220> field identifier
L:225 M:283 W: Missing Blank Line separator, <220> field identifier
L:238 M:283 W: Missing Blank Line separator, <220> field identifier
L:251 M:283 W: Missing Blank Line separator, <220> field identifier
L:264 M:283 W: Missing Blank Line separator, <220> field identifier
L:277 M:283 W: Missing Blank Line separator, <220> field identifier
L:290 M:283 W: Missing Blank Line separator, <220> field identifier
L:303 M:283 W: Missing Blank Line separator, <220> field identifier
L:316 M:283 W: Missing Blank Line separator, <220> field identifier
L:329 M:283 W: Missing Blank Line separator, <220> field identifier
L:334 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:18
L:335 M:258 W: Mandatory Feature missing, <221> Tag not found for SEQ ID#:18
L:335 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:18
L:335 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:343 M:283 W: Missing Blank Line separator, <220> field identifier
L:354 M:283 W: Missing Blank Line separator, <220> field identifier
L:364 M:283 W: Missing Blank Line separator, <220> field identifier
L:375 M:283 W: Missing Blank Line separator, <220> field identifier